SHEIKOVA, G.; GEORGIEVA, J.

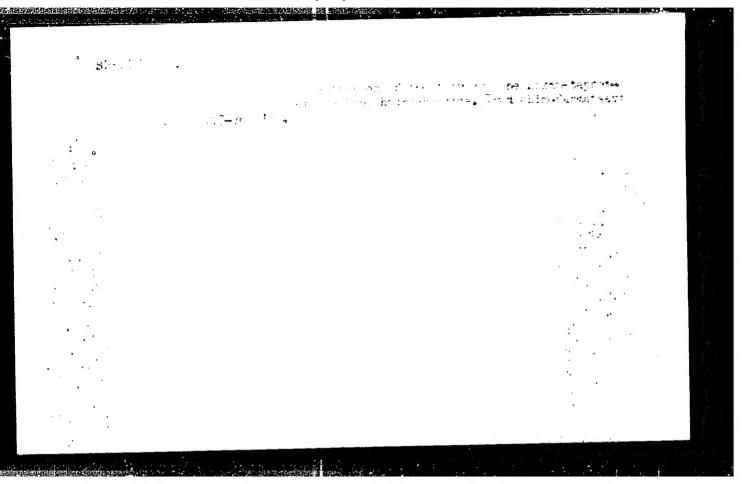
Actinomycetes-antagonists isolated from Bulgarian soils.
Folia microbiol. 8 no.5:308-312 '63.

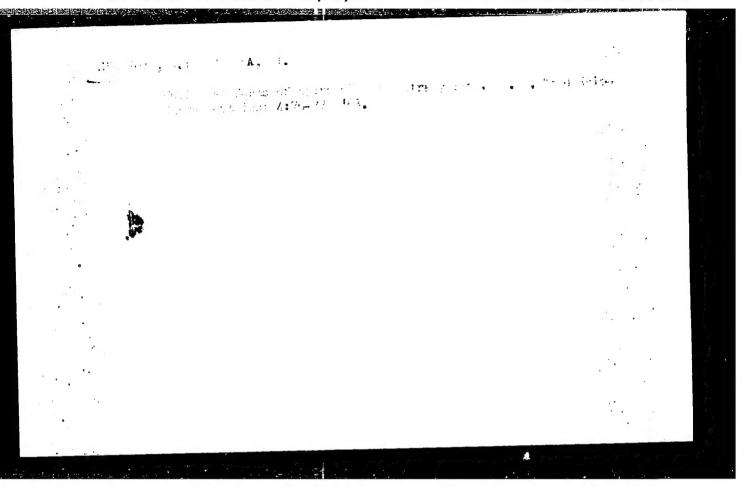
1. Research Institute of Pharmaceutical Chemistry, Sofia.
(ACTINOMYCETES) (PLANTS, MEDICINAL)
(SOIL MICROBIOLOGY)

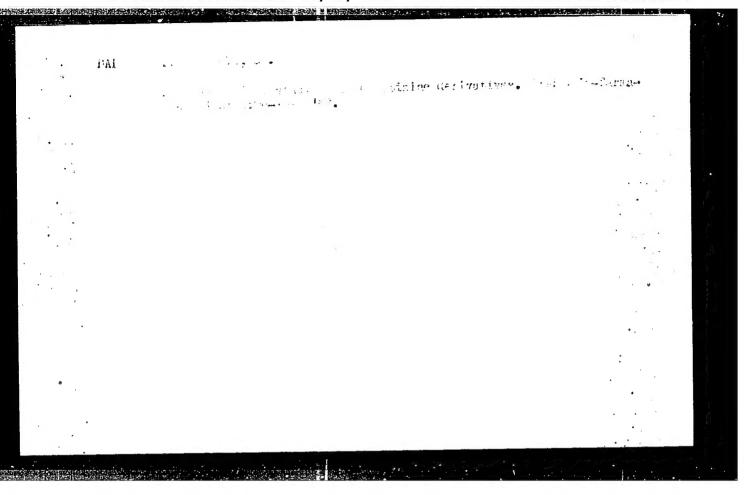
GECACIEVA, J.; SHEIKOVA, G.

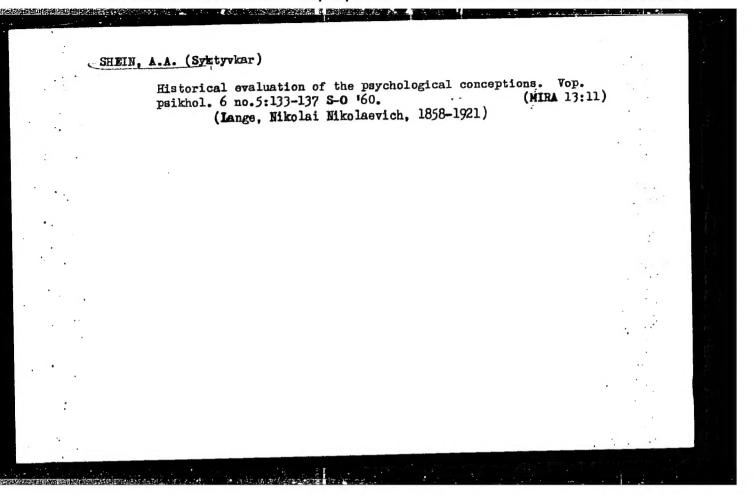
Vitamin B12 formation from various actinomycetes isolated from Bulgarian soils. Folia microbiol. 8 no.5:322-324 163.

1. Research Institute of Pharmaceutical Chemistry, Sofia.
(VITAMIN B 12) (ACTINOMYCETES)
(SOIL MICROBIOLOGY) (METABOLISM)









SHEIN, A.A.

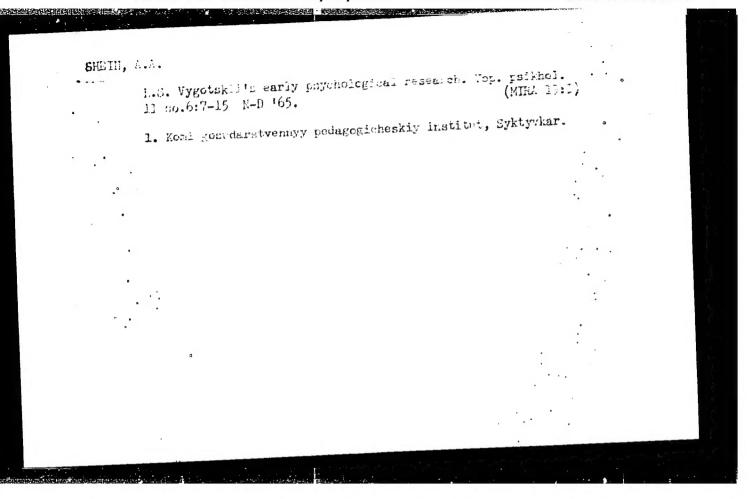
V.M. Bekhterev as a representative of materialistic psychology.
Vop. psikhol. 9 no.5:152-158 S-0 '63. (MIRA 17:2)

1. Pedagogicheskiy institut. Syktyvkar.

SHEIN, A.A.

Pavel Petrovich blonskii, 1884-1941 as a psychologist. Vop.
psikhol. 10 no.3:29-39 My-Je '64. (MIRA 17:9)

1. Komi gosudarstvennyy pedagogicheskiy institut, Syktyvkar.



Transference, A.T., Sasia, A.G.

Propertion agentions of two ring systems of sequence retringular view guides. Transference, redicteth. Sec., 35538-544, Sec., 165.

(MTR. 18-12)

1. Submitted July 29, 2563.

19250 3/141/52/005/002/012/025 E192/E382

9.4210

Tereshehenito, A.I. and Bhein, A.G. 100 M. M. W.

DE de W. . . agnetron anode unit with resonators Having a gendant-shaped transverse cross-section TTTLE:

Hovestiya vyssailh uchebnykh novedeniy, Amaiofizika, v. 5, no. 2, 1962, 311 - 313 PENTGOTONI:

The shape of resonators normally used in magnetrons does not provide the optimum operating conditions and it would be energially difficult to determine an analytical formula describing the optimum shape. However, an unconventionally-shaped resonator suggested in the patent of P.D. Spenser (USA ratent No. 2410396, 1946) seems to offer new possibilities. The resonator is illustrated in Fig. 1. This is in the shape of a pendant whose boundary in cylindrical coordinates is described by:

 $\cos \varphi + \sin(\varphi - \varphi)\sin(\varphi + \varphi)$ (1).

Card 1/4

8/141/62/005/002/012/025 £192/E582

Study of a magnerron , ..

The solutions of the Hamwell equations for this cylindrical system can be found comparatively easily but determination of the unknown constants in these equations leads to an infinite system of linear equations whose parameters are defined by considering the boundary conditions on the resonator walls. However, in practice, it is sufficient to take into account only a few terms of these equations. The most important parameter for the anode unit consisting of pendant-shaped resonators are its resonant frequencies. These can be determined from the resonance condition of the system:

(7) $Y_{n} + Y_{n} = 0$

is the admittance of the interaction space at the whore inpur of a resonator, and

 Y_r is the admittance of the resonator at r = a.

The first and second approximations for the resonant frequencies of a magnetron with 3 resonators are determined and the results are plotted in graphs. These are compared with some experimental Card 2/4

3/141/62/005/002/012/025 E192/E382

study of a magnetron

cata. It is found that for the —-mode the maximum discrepancy between the theory and experimental results does not exceed 5% for the first approximation and 1.5% for the second. The frequency separation for the —-mode and (N-1)/2-mode is of the order of 2%, while the calculated value is 1.6%. On the other hand, the frequency separation for the same modes in a standard anode-resonator unit is only 0.9%. The pendant-shaped resonators thus have the advantage that the separation of the frequencies between the "-mode and a neighbouring mode is greater than that of a standard resonator. Secondly, the pendant-shaped resonator has an increased quality factor which is due to its large volume-surface ratio. There are 4 figures.

ASSECTATION: That Thouskiy gosudarstvennyy universitet

(Mhar'kov State University)

JUDETTY 10: July 13, 1961

Car 1 5/4 7

TERESHCHENKO, A.I.; SHEIN, A.G.

Magnetron-type anode block with resonators with elliptical cross section. Igv. vys. ucheb. zav.; radiofiz. 6 no.1:119-125 '63.

1. Khar'kovskiy gosudarstvennyy universitet.

(Electric resonators) (Magnetrons) (Microwaves)

L 18390-63

HDS:

ACCESSION NR: AP3003730

5/0109/63/008/007/1274/1276

4.7

AUTHOR: Tereshchenko, A. I.; Shein, A. G.

TITLE: Effect of resonator cross section shape on the characteristics of magnetron type anode units

SOURCE: Radiotekhnika i elektronika, v. 8, no. 7, 1963, 1274-1276

TOPIC TAGS: resonator, magnetron anode

ABSTRACT: Theoretical and experimental investigation of the following resonator types is reported: slot, hole-and-slot, paddle, drop-shaped, and elliptical. By solving a planar isoperimetric problem and by using the method of conformal mapping, optimum shape of the resonator is found, and the practical shapes are compared with it. The conclusion is offered that using near-optimum resonators (drop-shaped and elliptical) enhances magnetron-oscillation stability and separation of frequencies; the latter fact may permit relinquishing magnetron strips in

Card 1/2

L 18390-63 ACCESSION NR: AP3003730

some cases. Orig. art. has: 2 figures, 3 formulas, and 1 table.

ASSOCIATION: none

SUBMITTED: 24Nov62 DATE ACQ: 02Aug63

ENCL: 00

SUB CODE: GE

NO REF SOV: 003

OTHER: 002

Card 2/2

LYAPUNOV, N.V.; SHEIN, A.G.; TERESHCHENKO, A.I.

Calculation of nonuniformities in waveguides using the Lorentz lemma. Izv. vys. ucheb. zav.; radiotekh. 8 no.1:11-17 Ja-F '65.

(MIRA 18:5)

"APPROVED FOR RELEASE: 08/23/2000 CIA

CIA-RDP86-00513R001549010003-8

L 00843-66 EVT(1)/EEC-4/EVA(h)

ACCESSION NR: AP5015809

UR/0109/65/010/006/1029/1037 621.385.6.032.266:621.372.8

AUTHOR: Tereshchenko, A. I.; Shein, A. G.

TITLE: Septate waveguide of cross-shaped cross-section as a delay system

SOURCE: Radiotekhnika i elektronika, v. 10, no. 6, 1965, 1029-1037

TOPIC TAGS: se tate waveguide, cross shaped waveguide, delay system

ABSTRACT: A cross-shaped waveguide, see Enclosure 1, potentially suitable for high-power TW tubes is considered. A dispersion equation describing the cross-shaped-waveguide delay system is developed for cophasal LE-modes, by the method of joining the fields at boundaries of simple regions. A formula for the system coupling resistance is derived. The dispersion characteristics and the coupling resistance were numerically calculated on a "Minsk-14" computer; the system has positive dispersion at the fundamental harmonic. Both theoretical and experimental results indicate that the cross-shaped delay line has a number of advantages: a rather wide passband (as compared to the clover-leaf and rectangular septate waveguides) and a high coupling resistance (1500--2000 ohms at $\rho D = 2\pi/6$ and 60--70 ohms at $\rho D = 9\pi$). Also the experiments have confirmed the validity of

Card 1/3

L 00843-66

ACCESSION NR: AP5015809

formulas. Orig. art. has: 4 figures, 32 formulas, and 1 table.

ASSOCIATION: none

SUBMITTED: 06Apr64

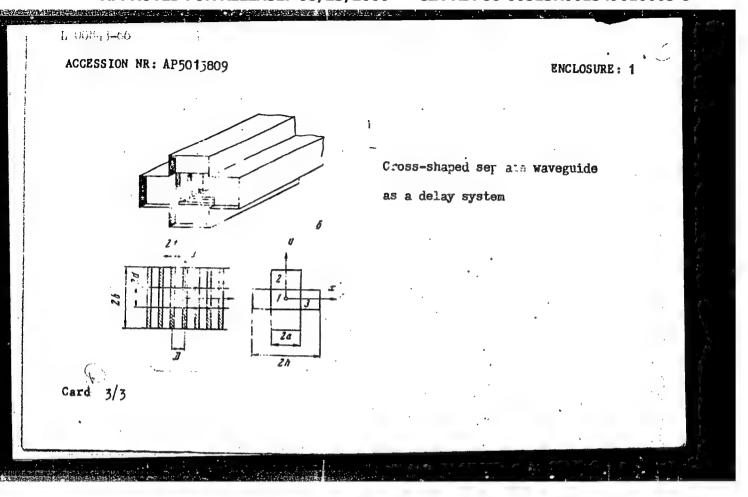
ENCL: '01

SUE CODE: EC

NO REF SOV: 006

OTHER: 004

Card 2/3



"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001549010003-8

L. 17546-66 ACC NR: AP6000519 SOURCE CODE: UR/0142/65/008/005/0538/0544 AUTHOR: Tereshchenko, A. I.; Shein, A. G. ORG: none TITLE: Dispersion equations of toroids formed from septate rectangular waveguides SOURCE: IVUZ. Radiotekhnika, v. 8, no. 5, 1965, 538-544 TOPIC TAGS: rectangular waveguide, delay system ABSTRACT: By applying a field-joining method to the boundaries of simple regions, a dispersion equation is developed for a delay system (toroid) formed by bending a rectangular septate waveguide in the TEplane. The dispersion equation for a waveguide bent in the E-plane (see Fig. 1a) has been developed elsewhere. The problem of propagation of cophasal LE-modes in the TE-Fig. 1 Fig. 2 plane-bent waveguide (Fig. 1b) Card 1/2 UDC: 621.572.85

L 17546-66

'ACC MR: AP6000519

is solved by subdividing the system into interaction space I and resonator regions 2 and 3 (Fig. 2). The final dispersion equation is given in this form:

$$\frac{\lg \sigma}{\sigma} = \frac{1}{u} \left(\frac{\sin m\delta}{\sin m\Theta} \right) \frac{\psi_s \operatorname{ctg} \psi_s \left(\frac{m}{\chi_{m1}} \right)^2 - \frac{R_m \Gamma_m}{\rho_{m1}^2} \psi_s \operatorname{ctg} \psi_s}{\left(\frac{m!}{\chi_{m1}} \xi \right)^3 - \frac{R_m \Gamma_m}{\rho^2} (\xi^2 - \omega^2 \rho_{m1}^2)}$$

 $\frac{\lg \sigma}{\sigma} = \frac{1}{u} \left(\frac{\sin m\delta}{\sin m\Theta} \right) \frac{\psi_i \operatorname{clg} \psi_i \left(\frac{m}{\chi_{mi}} \right)^2 - \frac{R_m \Gamma_m}{\rho_{mi}^2} \psi_i \operatorname{clg} \psi_i}{\left(\frac{m!}{\chi_{mi}} \xi \right)^3 - \frac{R_m \Gamma_m}{\rho_{mi}^2} (\xi^2 - \omega^2 \rho_{mi}^2)}$ By using this equation with certain approximations, the dispersion characteristics of the TE-plane-bent waveguide toroid are calculated, and it is shown that

such a toroid has positive dispersion at the fundamental spatial harmonic in the first ransparent zone. Orig. art. has: 3 figures, 28 formulas, and 1 table.

SUB CODE: 09 / SUBM DATE: 29Jul63 / ORIG REF: 007

SHEIN, Anatoliy Ivanovich; NIGEY, Fedor Mefod'yevich: REZNIKOV, Yu., red.

Karatau. Alma-Ata, Izd-vo Kazakhstan, 1965. 81 p.
(MIRA 18:6)

(MIRA 17:4)

KHORBENKO, Ivan Grigor'yevich; SHEIN, A.S., doktor fiz.-mat. nauk, retsenzent; ANTONOVA, S.D., red.

[In the world of inaudible sounds] V mire neslyshimykh zvukov.

Moskva, Mashinostroenie, 1964. 120 p.

SHEIN, A.V.; GUTIN, N.D.; VERSHININA, A.I.

At the Central Complex Laboratory of the Ural Geological Administration. Zav.lab. 28 no.8:1013-1014 '62. (MIRA 15:11) (Ural Mountain region—Chemical laboratories) (Minerals—Analysis)

SULEYMANOV, M.S.; SHEIH. D.V.

The quality of the ores of nonferrous metals and the profitableness of production. Gor. zhur. no.1:28-31 Ja 64. (MIRA 17:3)

1. Upravleniyo Vostochoc-Kazakhstanskogo okruga Gosudarstvennogo komiteta pri Sovete Ministrov Kazakhskoy SSR po nadzoru za bezopasnym vedeniyom rabot v promyshlennosti i gornomu nadzoru.

SHEIK, D.V., inzh.; KARPOV, V.M., inzh.; POLYANIN, M.A., inzh.

At mining enterprises of eastern Kazakhstan. Bezop. truda v prom. 8 no.9:30-31 S *64 (MIRA 18:1)

1. Upravleniye Vostochno-Kazakhstanskogo okruga Gosudarstvennogo komiteta pri Sovete Ministrov Kazakhskoy SSR po nadzoru za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru.

SUKHAREVSKIY, V. M., kand. tekhn. nauk; SHEIN, L. M., insh.; VASILENKO, V. P., inzh.; DRANITSYN, Ye. S., inzh.; STAHUSHCHENKO, A. S., nauchnyy sotrudnik

Role of wetting and the moisture regime of coal in the massif.
Ugol' Ukr. 7 no.4:42-43 Ap !63. (MIRA 16:4)

1. Institut gornogo dela AW UkrSSR (for Sukharevskiy, Shein, Wasilenko, Dranitsyn).

(Coal mines and mining)
(Mine dusts—Prevention)

SHEIN, N.I.

Handle for cranking elevators. Sbor. rats. predl. vnedr. v proizv. no.2:17-18 '61. (MIRA 14:7)

KUDRITSKIY, A.; VOLKOV, A.; FOGEL', Z.; PODOBED, Yu.; TITOV, A.; SHEIN, R.; LITSITIS, Ya. [Licitis, J.]; OSTROVENETS, V.; SEMENTSOV, N.

Specialization is indispensable. Tekh. est. no.4:22-23 Ap 165.

(MIRA 18:6)

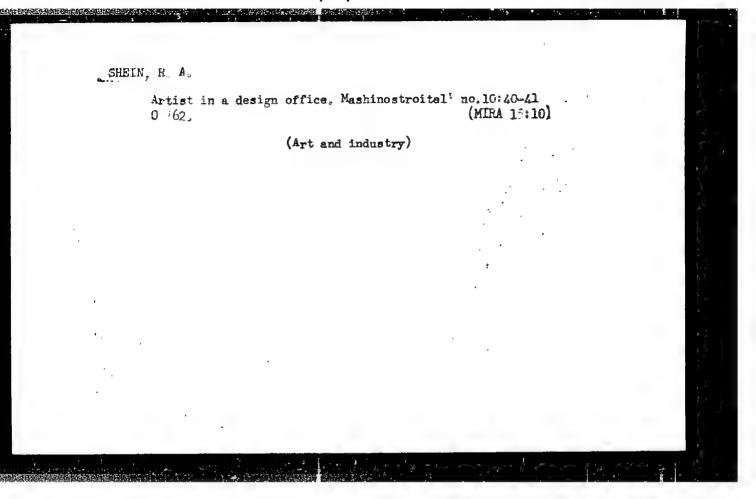
1. Spetsial'noye khudozhestvenno-konstruktorskoye byuro Kiyevskogo soveta narodnogo khozyaystva (for Kudritskiy, Volkov, Fogel').

2. Spetsial'noye khudozhestvenno-konstruktorskoye byuro Soveta narodnogo khozyaystva Moskovskogo gorodskogo ekonomicheskogo rayona (for Podobed).

3. Spetsial'noye khudozhestvenno-konstruktorskoye byuro Soveta narodnogo khozyaystva Leningradskogo ekonomicheskogo rayona (for Titov).

4. Spetsial'noye khudozhestvenno-konstruktorskoye byuro Sredne-Ural'skogo soveta narodnogo khozyaystva (for Shein).

5. Spetsial'noye khudozhestvenno-konstruktorskoye byuro Soveta narodnogo khozyaystva Latviyskoy SSR (for Litsitis, Ostro-venets, Sementsov).



SHEIN, V.A.; BELOV, V.P.

Some means for lowering the expenditure of time and materials in lost circulation. Izv. vys. ucheb. zav.; neft' i gaz 5 no.6: 111-114 '62. (MIRA 16:5)

SHEIN. V.A.; POLYANTSEV, I.S.

Determining the consolidated capital investment indices in oil fields. Nefteprom. delo no. 3:25-27 *64. (MIRA 17:5)

1. Krasnodarskiy filial Vaesoyuznogo neftegazovogo nauchnoissledovatel'skogo instituta i Gosudarstvennyy institut po proyektirovaniyu predpriyatiy neftyanoy promyshlennosti vestochnykh i yuzhnykh rayonov SSSR.

SHEIN, V.A. RHANTEYEV, V.C.

Method for the comparative technical-economic evaluation of various methods of flooding. Nefteprom. delto no.3:30-34 1c5. (MIRA 18:10)

1. Krasnodarskiy filial Vsesoyuznogo neftegazovogo nauchosiseledovatel'skiy institut i Gosudarstvennyy institut po proyektirovaniyu i issledovatel'skim rabotam neftedobyvayushchiy promyshlennosti vostochnykh rayonov strany.

507/49-59-9-11/25

Schov'yev, S. L. and Shein, V. B

The Intensity of Marthquakes Based on Data of Soviet Far East-AUTHORS: $\operatorname{TITL}_{\mathbb{R}}$:

ern and Continental Stations of USSR

PERIODICAL: Izvestiva Akademii nauk, SSSR. Seriya geofizioneskaya.

ABSTRACT: The intensity M was calculated from the formula M = 1gA -LEA where the function LEA characterises a mean rate of decrease of the ground displacement with distance which was empirically determined as

 $l_{\rm g}$ $A^* \approx -1.20 - 1.25 \, l_{\rm g} \, \Delta^{\rm o}, \, 1^{\rm o} < \Delta < 100^{\rm o}$

for the regions extending from the Caucasus to the Middle Asia (Δ - epicentric distance). The results of calculations with \pm 0.25 accuracy are tabulated in Tab 1, where the following data are included: Column 1 - date; 3 and 4 - their co-ordinates; 7 - number of stations taking 2 - time of earthquake; part in determination of Mmean; 8 to 14 - 8M = Mstation Mmean; 15 - mean 8M. The results of calculation of MFar East - MContinental = (S AF.E./Acont. determined

Card 1/2

3.7/49-59-9-11/25

The Intensity of Marthquakes Based on Data of Soviet Far Eastern and Continental Stations of USSR

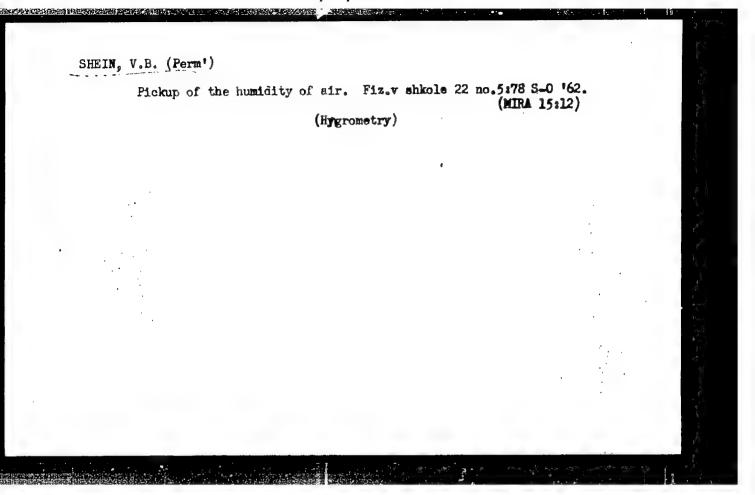
Mark - Carlo Carol Carlo Carlo

for some of the Far Last stations are illustrated in Figs 1 to 4. This calculation was performed for the relions where the intensity M was obtained from more than 10 carthquakes (Tab 2). Fig 5 shows the distribution of the lifference MF.E. - Moont, showing a regular pattern. There are 5 figures, 2 tables and 12 references, 3 of which are Soviet, 2 French and 2 English.

ASSOCIATION: Anademiya nauk SSSR, Institut fiziki Zenli (AS AUSSR, Institute of Physics of Earth)

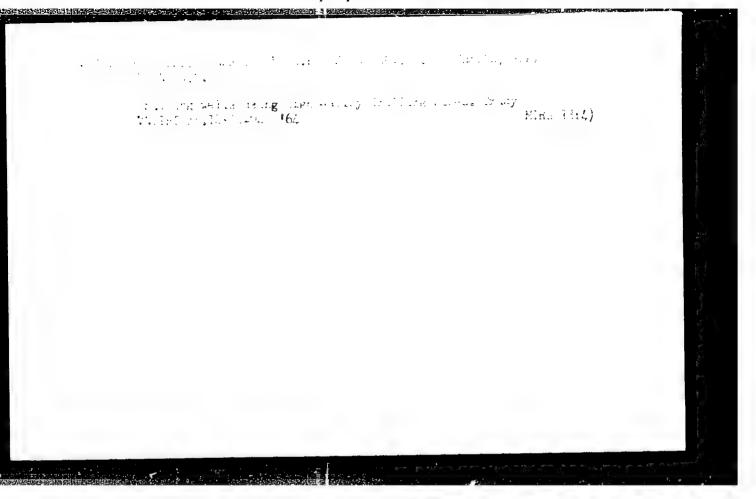
SUBMITTED: April 10, 1956

Card 2/3



KUZNETSOV, German Ivanovich; FAYN, Genrikh Moiseyevich; SHTAMBURG, Valentin Fedorovich; SHEINA, Antonina Aleksandrovna; MIKHEYEV, N.I., red.

[Drilling pipes from light alloys] Buril'nye truby iz legkikh splavov. Kuibyshev, Kuibyshevskoe knizhnoe izd-vo, 1964. 51 p. (MIRA 17:12)



Clanical experimental data on the use of ultrasound in bronchial asthma. Trudy TSIU 77:8-13 '65. (MIRA 18:9)

1. Mafedra fizioterapit (zav... dotsent A.2. Speronskiy) i IV kafedra terapit (zav chlon.korrespondent AMM Torm whof, P.I. Yegerov) TSentral'nogo instituta usovershenstvovaniya vrachey.

SHEINA, A.N.

Ultrasound and the treatment of bronchial asthma. Trudy TSIU 72:
45-49 '64. (MIRA 18:11)

1. Kafedra fizichaskoy terapii (zav. - dotsent A.P. Speranskiy),
i IV kafedra terapii (zav. chlen-korrespondent AMN SSSR - prof.
P.I. Yegorov) Tsentral nogo instituta usovershenstvovaniya vrachey.

ZASLAVSKAYA, R.M.; SHEINA, A.N.

Effect of ultrasound on the tonus of bronchial musculature and hemodynamic indices; experimental studies. Trudy TSIU 72: 50-54 164. (MIRA 18:11)

1. IV kafedra terapii (zav. chlen-korrespondent AMN SSSR, prof. P.I. Yegorov), i kafedra fizicheskoy terapii (zav. - dotsent A.P. Speranskiy) TSentral'nogo instituta usovershenstvovaniya vrachey.

SHEINA, A.K., dotsent

THE PERSON OF TH

Use of lipocaine in acute and chronic diseases of the liver and the biliary tract. Vrach. delo no.2:48-53 F '61. (MIRA 14:3)

1. Kafedra terapii (zav. - prof. G.I.Burchinskiy) stomatologicheskogo fakul'teta Kiyevskogo meditsinskogo instituta.
(LIVER__DISEASES) (BILIARY TRACT__DISEASES)
(LIPOCAIC)

YAVU-DEANA, Ye.S., Jotsent; Shalia, A.A., dotsent; blbulkALOVA, H.A., dotsent

Probeless determination of gastrie juice acidity in glossodynia. Vrach. delo no.6:45-47 Je 161. (MLA 15:1)

l. Kafedra terapevticheskoy stomatologii (zaveduyushchiy - prof. I.O. Novik), kafedra terapii (zaveduyushchiy - prof. G.I.Burchinskiy) stomatologicheskogo fakuliteta i kafedra bickhimii (zaveduyushchiy - prof. Ye.F; Shamray) Kiyevskogo meditsinskogo instituta. (GASTRIC JUICL) (TONGUEL DISLASES)

SHEINA, A.K., dotsent

Clinical observations of the action of phthivazide in Botkin's disease. Vrach.delo no.8:72-75 Ag '62. (MIRA 15:11)

AFANAS'YEV, G.D.; BORISEVICH, I.V.; SHANIN, L.L.; SHEINA, I.P.

Cases of Ar and K nonequilibrium relations in biotites in connection with the creation of geological time scale in the absolute chronology. Izv.AN SSSR.Ser.geol. 28 no.1:19-45
Ja '63. (MIRA 16:2)

1. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR, Moskva.

(Potassium-argon dating)

SHEINA, Klavdiya Petrovna; YAKOVLEV, Mitrofan Fedorovich;
TUBOLTSEV, M., red.; POKHLEBKINA, M., tekhn. red.

[Taking care of the most important] V zabote o glavnom.

Moskva, Mosk. rabochil, 1963. 109 p. (MIRA 16:9)

(Moscow Province—Efficiency, Industrial)

DRYNOVA, I.A.; KORSHUN, L.L.; SHEINA, L.A.; SHUBINA, I.I.

Use of flat lacquers for furniture finishing. Der.prom. 10
no.11:9-10 N '61.

(Lacquers and lacquering) (Furniture industry)

ACCESSION NR: AP4044276

\$/0192/64/005/004/0583/0589

AUTHOR: Klevesov, P. V.; Klevesova, R. F.; Sheins, L. P.

TITLE: Grystalline yttrium hydroxides

SOURCE: Zhurnal strukturnoy khimii, v. 5, no. 4, 1964, 583-589

TOPIC TAGS: yttrium hydroxide, yttrium monohydroxide, single crystal growth, hydrothermal crystal growth, ferrite crystal growth, single crystal structure

ABSTRACT: Transparent colorless crystalling phases previously observed in the products of hydrothermal synthesis of yttrium ferrite single crystals have been identified as yttrium hydroxides, YOOH and Y(OH)3. The crystal structure of these hydroxides was studied goniometrically and by x-ray diffraction, chemical analysis, and other methods. The study was considered necessary for better understanding of the mease equilibria and chemical reactions in hydrothermal systems. The YOOH and Y(OH)3 single crystals used in the study were synthesized in hydrothermal conditions from either Y2O3-Fe2O3-H2O-NaOH or Y2O3-H2O-NaOH or Y2O3-H2O-NaOH oystem. Most of the YOOH single crystals were in the form

Cord 1/2

ACCESSION NR: AP4044276

of hexagonal plates belonging to the prismatic class of the monoclinic crystal system and to the $P2_1/m$ space group. Typical $Y(OH)_3$ single group were needle-shaped, 1 cm x ≈ 0.6 mm, belonging to the hexagonal system and to the $P6_3/m$ space group. Dimensions of the unit was not determined for both hydroxides. The piezoelectric effect x-ray diffraction patterns of $Y(OH)_3$ crystals were found to be similar to those of $M(OH)_3$, were M is La, Nd, Sm, Gd, or Er. It was concluded that only two crystalline phases— $Y(OH)_3$ and YOOH—are formed, individant, has: 2 figures and 3 tables.

ASSOCIATION: Institut neorganicheskoy khimii SO AN SSSR, Novosibirsk (Institute of Inorganic Chemistry: SO AN SSSR)

SUBMITTED: 11Ju163

ENCL: 00

SUB CODE: S5, IC

NO REF SOV: -004

OTHER: 006

Card 2/2

"APPROVED FOR RELEASE: 08/23/2000 CIA-RDP86-00513R0015490100

EWT(1)/EWT(m)/EWP(t)/T/EEC(b)-2/EWP(b) JD/JG/GG I 60923-65 ACCESSION NR: AP5018925 UR/0363/65/001/006/0912/0917 546.65-36:548.19 AUTHOR: Klevtsov, P. V.; Sheina, L. TITLE: Hydrothermal synthesis and crystal structure of rare earth hydroxides AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 6, 1965, SOURCE: 912-917 TOPIC TAGS: rare earth hydroxide, hydrothermal synthesis, crystal structure ABSTRACT: Rare earth hydroxides of the composition M(OH) 3 for elements from La to Tb and of the composition MOOH for elements from Nd to Lu were synthesized in aqueous NaOH solutions by the hydrothermal method. The M(OH) 3 compounds are stable at a lower temperature than MOOH. The temperature of the $M(OH)_3 \rightarrow MOOH$ transformation decreases with increasing atomic number of the rare earth element, from > 600C for Nd to 120C for Yb. X-ray diffraction studies showed that all of the synthesized trihydroxides have a UCl3-type structure, and that the mono-hydroxides have a YOOH-type structure. The lattice constants of all the compounds are tabulated. In both the mono- and trihydroxides, the unit lattice parameters decrease as the elements become heavier; this is due to the lanthanide contraction. "The authors thank F. A. Brusentsev and A. N. Rebenko for assistance

L 60923-65			
ACCESSION NR: AP5018925	The second secon	2	
rendered in refining the crystal 1	lattice narameters on a co		
program which they developed, and	V. S. Grigor vev for measu	uring the densities	
of the hydroxides." Orig. art. he			
ASSOCIATION: Institut neorganiche Chemistry, SO AN SSSR)	skoy khimii SO AN SSSR (In	nstitute of Inorganic	
			5
SUBMITTED: 07 Dec64 ENC	CL: 00 SUB	CODE: IC,55	
NO REF SOV: 003 OTH	IER: 003		
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Card 2/2			

EEC(b)-2/EVT(1)/EVT(m)/EVP(b)/T/EVP(t) Pi-4 IJP(c) GG/JD/JC E. 63620-65 ACCESSION NR: AP5016921 UR/0192/65/006/003/0469/0471 548,736 AUTHOR: Klevtsov, P.V.; Klevtsova, R. F.; Sheina, L.P. TITLE: Crystalline yttrium hydroxychloride SOURCE: Zhurnal strukturnoy khimii, v. 6, no. 3, 1965, 469-471 TOPIC TAGS: yttrium compound, yttrium hydroxychloride, crystal structure ABSTRACT: The chemical composition of crystalline yttrium hydroxychloride was determined. Chemical analysis gave the following results (in wt. %): Y3+, 54.8; C1-, 22.0; H₂O + HCl, 31.3. Infrared spectra showed the absence of water of crystallization and the presence of hydroxyl groups. The results of the chemical analysis led to the formula Y(OH)2Cl, which was confirmed by an x-ray structural study. The compound belongs to the rhombic system; its Laue class is D_{2h} - mmm; the unit cell parameters are: a = 6.21 +0.03 A, $b = 12.54 \pm 0.06$ A, $c = 3.62 \pm 0.02$ A. The average density of the crystals measured by the flotation method is 3.71 g/cm³; hence, the unit cell contains four formula units Y(OH)₂Cl (the x-ray density is 3,73 g/cm³). X-ray powder diagrams of the Y(OH)₂Cl crystals were also studied. Orig. art. has: 1 table. Card

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ACCESSION NR:	AP5016921					/	
ASSOCIATION: In Inorganic Chemis	stitut neorganiches try, SO AN SSSR)	koy khimii 80 /	Ansser, N	ovosibirsk	(Institute	of	
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KLEVITOU, P.V.; SHEINA, L.P.

Thermographic and X-ray diffraction study of crystalline hydroxides of rare-earth elements and yttrium. Izv. AN SSSP., Neorg. mat. 1 no.12:2219-2226 D '65. (MIRA 18:2.)

1. Institut neorganicheskoy khimii Sibirskogo otdeleniya AN SEOR.

93/06 **s/**075/61,11 B106/B147

5 5400

AUTHORS: Gallay, Z. A., and Sheina, N. M.

TITLE: Amperometric titration of vanadium and uranium Ly solic :

trivalent titanium

FERIODICAL: Zhurnal analiticheskoy khimii, v. 16, no. 6, 1961, 706-708

TEXT: The authors were the first to use compounds of trivalent titanium as reagents in amperometric titrations. It had been found earlier that trivalent titanium oxidized on a rotating platinum microelectrode in the potential range 0.4-0.9 v, with the diffusion current being proportional to the titanium concentration (Ref. 4: Peshkova V. M., Gallay Z. A., Yestnik MGU, ser. fiz., mat. i estestv. nauk, no. 10. 73 (1954)). Because of this valuable property and owing to the fact that trivalent titanium is a sufficiently strong reducing agent ($E_0 \text{ Ti}^{\text{IV}}/\text{Ti}^{\text{III}} = -0.04 \text{ v}$) it can be used for titrimetric determination of hexavalent uranium ($E_0 \text{ UO}_2^{2+}/\text{U}^{\text{IV}} = +0.407 \text{ v}$), tetravalent and pentavalent vanadium in pure salts and in the presence of tetravalent titanium. The experiments were Card 1/4

29526 \$/075/61/016/006/003/006 B106/B147

Amperometric titration of ...

made in a visual polarograph with an M-21 (M-21) galvanometer (maximum sensitivity $2.4\cdot10^{-9}$ a/mm/m). A rotating platinum microelectrode of 5 mm length was used as indicator electrode, and a saturated calomel electrode as reference electrode. The reagent solution was obtained by adequate dilution of a 15% TiCl₃ solution with HCl (1 : 1) or 4 M H₂SO₄;

it can be stored for 3 weeks in dark glass vessels. All experiments were made in purified aitrogen atmosphere. The concentration of the reagent solution was ascertained by potentiometric or amperometric titration with a standard solution of potassium bichromate. When ≥ 0.5 N sulfuric acid is used as a medium, pentavalent vanadium is quantitatively reduced to trivalent vanadium by trivalent titanium. In a 0.1 M sodium tartrate solution (pH 5.9) as a medium, vanadium is only reduced to tetravalent vanadium. Solutions of compounds of trivalent titanium can be used as a medium for the amperometric titration of tetravalent vanadium both in pure salts and in the presence of considerable amounts of Cr(III), Mn(II), and Ti(IV) in 10 N H_2SO_4 (Table 1). Hexavalent uranium is only slowly reduced

by trivalent titanium. Reduction is accelerated by addition of pyrophosphoric acid or low amounts of SnCl2. Ye. R. Nikolayeva and Yu. M.

Card 2/4

29526 \$/075/61/016/006/003/006 B106/B147

Amperometric titration of ...

Shehekoshikhin discovered that addition of pyrophosphoric acid increased the value of $H_{*}(VI)/U(II)$ from 0.4 to 0.6. Furthermore, pyrophosphoric acid forms a complex compound with tetravalent titanium and, thus, lowers the redex potential of the system Ti(IV)/Ti(III). Addition of 0.2-0.3 milliliters of 50% $H_4P_2O_7$ in 1 N H_2SO_4 as a medium made it possible to conduct amperometric titration at E=0.8 v. The error of determination of 5-10 mg of U does not exceed 1.3%. Thus, uranium can be quantitatively determined in the presence of considerable amounts of tetravalent titanium (up to a ratio U : Ti=1: 100) in 1 N H_2SO_4 as a medium if the solution to be titrated contains 1 milliliter of 50% pyrophosphoric acid per 10 milliliters of solution. Deflection of the galvanometer is registered 30 seconds after addition of the reagent solution. There are 1 figure, 2 tables, and 7 references: 5 Soviet and 2 non-Soviet. The reference to the English-language publication reads as follows: Henrixon W. S. J. Am. Chem. Soc., 45, 2013 (1923).

Card 3/A

\$/075/61/016/006/003/008 B106/B147

Amperometric titration of ...

Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Moscow State University imeni M. V. Lomonosov)

SUBMITTED:

ASSOCIATION:

October 8, 1960

Table 1. Determination of vanadium in the presence of foreign elements in igwedge10 M H_2 SO, as a medium.

Lagend: (1) foreign elements, mg; (2) V, mg; (3) taken; (4) for the state of the st (5) error, %.

(2) V. M.					(2) V. Md			
Посторонине элементы, ма	взято	определено	Ошибка. % ⑤	Посторонине элементы ①	831170	эпределено	Ошнека. %	
Cr8+ 10	0,46 1,39 0,92 0,92 0,68	0,45 1,38 0,91 0,89 0,67	-2,0 -0,7 -1,0 -3,0 -1,4	Ti ^{IV} 60 60 104	0,68 2,00 1,00 1,00	0,63 2,06 1,02 1,04	-7,0 3,0 2,0 4,0	

Card 4/4

CIA-RDP86-00513R001549010003-8" APPROVED FOR RELEASE: 08/23/2000

ALIMARIN, I.P.; GALLAY, Z.A.; SHEINA, N.M.; RODIONOVA, T.V.

Current-voltage characteristics of N-benzoylphenylhydroxylamine solutions. Izv.AN SSSR.Otd.khim.nauk no.3:567-569 Mr '63. (MIRA 16:4)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova.
(Benzohydroxamic acid) (Reduction, Electrolytic)

GALLAY, Z.A.; ALIMARIN, I. P.; SHEINA, N.M.

Voltammetric study of benzohydroxamic acid solutions. Izv. AN SSSR. Ser. khim. no.11:2050-2051 N '63. (MIRA 17:1)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova.

GALLAY, Z.A.; ALIMARIN, I.F.; SHEINA, N.M.

Use of N-benzoylphenvibydroxylamine for the amperometric titration of titanium, zirconium, gallium, and scandium. Zhur. anal.khim. 18 no.12:1442-1446 D '63. (MIRA 17:4)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova.

. 122 /SH ETP(e)/EWT(m)/ETC(f)/EWG(m)/T/EMP(U) IJP(S) SOURCE CODE: UR/0075/65/020/010/093/1096 14686-66 ACC NR: AP6005881 (A)

AUTHOR: Gallay, Z. A.; Sheina, N. M.; Alimarin, I. P.

ORG: Moscow State University im. M. V. Lomonosov (Moskovskiy gosudrastvennyy uni-

TITLE: Amperometric determination of gallium in gallium arsenide and phosphide

SOURCE: Zhurnal analiticheskoy khimii, v. 20, no. 10, 1965, 1093-1096

TOPIC TAGS: gallium arsenide, phosphide, amperometric titration, gallium, arsenic, graphite microelectrode, electrolyte, volt ampere characteristic

ABSTRACT: The applicability of the amperometric method to the determination of GaAs and GaP in samples of minimum possible weight was studied using a rotating graphite microelectrode and the reagent N-benzoylphenylhydroxylamine (N-BPHA) for the amperometric titration of gallium. A preliminary study of the volt-ampere characteristics of N-BPHA on a graphite electrode was made; oxidation waves of N-BPHA were obtained, and the dependence of $E_{\frac{1}{2}}$ on the hydrogen ion concentration was determined. For acid background electrolytes, the diffusion current was found to be proportional to

UDC: 543.24

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"APPROVED FOR RELEASE: 08/23/2000

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concentrations up to 1·10⁻³ M N-BPHA, and the oxidation current of N-BPHA was found to be much more stable on a graphite electrode than on a platinum electrode. Gallium was determined by means of the oxidation current of N-BPHA at pH 3 by amperometric titration in the presence of arsenic (III), at a graphite electrode potential of 1.1 V. The accuracy of the determination is high up to a Ga/As ratio of 1/1.5. Arsenic (III) was determined in the presence of gallium by amperometric titration with potassium bromate. In the case of the semiconductor GaP, gallium was determined with sufficient accuracy up to a Ga/P ratio of 1/1.5. Orig. art. has: 1 figure, 5 tables.

SUB CODE: 07/ SUBM DATE: 270ct64/ ORIG REF: 004/ OTH REF: 000

Card 2/2.

CORTINSKAYA, T.V.; SHEINA, N.P.; SHCHUKINA, M.N.

Determination of the dissolution properties and the mechanical hardness of tablets. Materials for the 9th edition of the State Pharmacopoeia of the U.S.S.R. Med. prom. 14 no.9:15-23 S '60. (MIRA 13:9) (TABLETS (MEDICINE))

(DRUG INDUSTRY EQUIPMENT AND SUPPLIES)

GORTINSKAYA, T.V.; SHEINA, N.P.; SHCHUKINA, M.N.

Some derivatives of 3-methoxy-6-(sulfanilamido)-pyridazine. Med. prom. 14 no.9:23-25 S '60. (MIRA 13:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy khimiko-farmatsevticheskiy institut imeni S. Ordzhonikidze.

(PYRIDAZINE)

IJP(c) AFMD(t) EWT(1)/EWG(k)/EWT(m)/EWP(j)/EEC(t) Pc-4/Pz-6 L 14839-65 AT/RM

AP4048434 ACCESSION NR:

S/0181/64/006/011/3474/3475

AUTHORS: Avdeyenko, A. A.; Naboykin, Yu. V.; Sheina, S. P.

TITLE: Effect of external field on the spectrum of the inhomo-

geneous photoconductivity in pyrene single crystals

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Fizika tverdogo tela. v. 6, no. 11, 1964, 3474-3475

TOPIC TAGS: photoconductivity measurement, carrier recombination, carrier lifetime

ABSTRACT: To trace the influence of an external field on the spectral curve of the photocurrent of a layer-type photocell (in which the illumination passes through a transparent electrode along the applied field), the authors used single-crystal pyrene purified by sublimation, a DMR-4 double monochromator, a DKSSh-200 electronically stabilized xenon lamp, and a U1-2 electrometric amplifier. The results indicate that at low fields there is only weak separation of

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ACCESSION NR: AP4048434

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the charges and their recombination rate is high if their density in the generation region is high. The anticorrelation between the photoconductivity and absorption spectra in weak fields is attributed to the decrease in the carrier lifetime in the region of strong absorption. Favoring this conclusion is also the behavior of the spectral curve when the illumination is applied from the side of the negative electrode, where the field has a smaller effect, because the drift mobility of the electrons in pyrene is much smaller than the drift mobility of the holes. "The authors thank V. V. Yeremenko for a discussion." Orig. art. has: 1 figure.

ASSOCIATION: Fiziko-tekhnicheskiy institut nizkikh temperature AN UkrSSR, Khar'kov (Physicotechnical Institute of Low Temperatures, AN UkrSSR)

SUBMITTED:

09Jun64

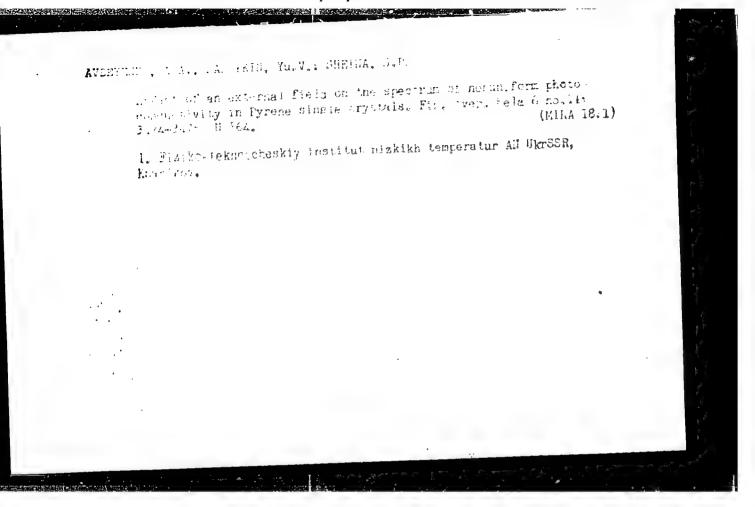
SUB CODE: SS, OP

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ENCL: 00

OTHER: 008

Card 2/2



33.25 5/141/61/004/006/013/017 7.2300 (1331,1159,1385,1139) E192/E382 Peskovatskiy, S.A. and Sheina, T.G. Measurement of the permittivity of small samples at AUTHORS: Izvestiya vysshikh uchebnykh zavedeniy, TITLE: Radiofizika, v. 4, no. 6, 1961, 1099 - 1103 UHF The paper was read at the conference of MV and PERIODICAL: SSO SSSR for radio-electronics, Khar'kov, 1960. The possibility of measuring the permittivity & of very small samples, such that the maximum dimension of the sample 2a is TEXT: much less than the wavelength λ , is of considerable practical interest. For a sample having the form of an ellipsoid of revolution situated in an electric field Fo which is parallel to the longer axis a of the sample, the frequency deviation in the measuring resonator is expressed by (Ref. 5 -A.L. Mikaelyan - Radiotekhnika, 10, 1, 23, 1956): card 1/6 4

Measurement of

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$$\frac{f_0^2 - f^2}{f_0^2} = \frac{\Delta \varepsilon}{1 + R \Delta \varepsilon} \frac{E_0^2 v}{\int_V E_0^2 dv} = \rho F,$$
(2)

Where $\zeta \varepsilon = \varepsilon/\varepsilon_0 - 1$,

 $\epsilon_{_{\scriptsize{O}}}$ is the permittivity of the medium in which the sample is situated, and

is the volume of the sample.

The remaining symbols in Eq. (2) are defined by:

$$P = \frac{\Delta z}{1 + R \Delta z}; \quad F = \frac{E_0^2 v}{\int_V E_0^2 dv};$$

$$R = \left(\frac{c}{a}\right)^2 \left[\frac{1}{2} \ln \frac{1 + \sqrt{1 - (c/a)^2}}{1 - \sqrt{1 - (c/a)^2}} - \sqrt{1 - \left(\frac{c}{a}\right)^2}\right] \left[1 - \left(\frac{c}{a}\right)^2\right]^{-3.2};$$
(5)

Card 2/6 4

537/4 \$/141/61/004/006/013/07 £192/£382

Measurement of

where 0.1 \leqslant c/a \leqslant 1 and the quantity R can be expressed by

$$R \simeq -0.03 + 0.46(c/a) - 0.1 (c/a)^2$$
 (3a)

where c is the small axis of the ellipsoid. On the basis of the above equations it is shown that the real and the imaginary components of ϵ can be expressed by

$$e^{x} = 1 + \frac{1}{F/2\eta - R} \tag{7}$$

$$\varepsilon'' = \frac{\left(1 + R\Delta_{\varepsilon'}\right)^2}{Q_{\varepsilon}F} \tag{8}$$

where $1/Q_{\varepsilon} = 1/Q_{0\varepsilon} - 1/Q_{0}$, where $Q_{0\varepsilon}$ and Q_{0} are the

Card 3/8

Measurement of

Card 4 18 .

\$/141/61/004/006/013/017 E192/E382

quality factors of the resonator with and without the sample. respectively the parameter R can be determined graphically (Fig. 1) It is shown by analyzing the measurement conditions that the main error in measuring ε is due to the deviation of the sample from its ellipsoidal form. On the other hand the error in the measurement of ϵ " is primarily due to the error in determining the quality factor of the resonator without The errors in measuring ϵ were investigated experimentally with parallelopiped samples of identical weight. It was found that for the cylindrical samples the measurement error did not exceed 10%. On the other hand, when compared With the waveguide method of measurement, the above small sample method resulted in a discrepancy of not more than 4% It 19 therefore concluded that the small-sample method can be used successfully for the measurement of ϵ , the errors of measurement are comparable with those of the waveguide method Further the small sample method has the advantage that very small samples can be employed and that interpretation of the results is not more complex than that in the other methods

Measurement of

5/141/61/004/006/013/017 E192/E382

The authors express their gratitude to A.N. Chernets for valuable advice and for his interest in this work. There are 1 figure, 3 tables and 7 references: 5 Soviet-bloc and 2 non-Soviet-bloc. The two English-language references mentioned are: Ref. 4 - H.B.G. Casimir - Phys. Res. Rep., 6, 162, 1951; Ref. 7 - L.C. Maier, J.C. Slater, J. Appl. Phys.,

ASSOCIATION:

Institut radiofiziki elektroniki AN UkrSSR (Institute of Radiophysics and Electronics

of the AS UkrSSR)

SUBMITTED:

February 3, 1961

Card 5/# 5

15.8150

S/i90/61/003/010/004/019 B130/B110

AUTHORS.

Korshak, V. V., Krongauz, Ye., S., Sheina, V. Ye.

TITLE:

Studies in the field of coordination polymers VI

Synthesis of coordination polymers of some bis- (diketones)

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, v. 3, no 10. 1961,

1456 1461

TEXT: The authors synthesized aliphatic bis-(β -diketones): 1,1,2,2-tetraacetyl ethane (I), adipyl- (II), and sebacyl diacetophenone (III), and prepared and studied their metal polymers. They prepared I from a suspension of 0.5-mole Na-acetyl acetonate in ether by adding a solution of 0.5-mole iodine in ether at room temperature under vigorous stirring.

The melting point was 185-186°C, the yield 27-30%. II and III were prepared according to V. V. Korshak et al. (Vysokomolek, soyed, 1, 1764,

1959). The merting point of III was 108-109.5°C (Yield 20-22%). The metal polymers of the bis-(β-diketones) produced were prepared by 3-hr heating in a vacuum of 2-4 mm Hg of their equimolecular mixture with the

Card 1/4

28176 S/190/61/003/010/004/019 B130/B110

Studies in the field of coordination .

respective Me-acetyl acetonate at 150-210°C until no acetyl acetone was set free. To remove the remaining acetyl acetone, the resulting product was treated with hot water, boiled in alcohol, washed with ether, and dried to constant weight. The copper derivatives were obtained by reaction of the diketones with copper acetate in an alcohol solution was found that I with Be-, Ni-, Co-, and Zn-acetyl acetonates formed nonfusible powders which were unsoluble in ordinary organic solvents and had a high decomposition temperature. I formed no coordination compounds with Mn and Cd. The chemical analysis showed that the composition of the resulting metal compounds corresponded to the theoretical values the metallic derivatives of II and III constituted colored powders Be-derivatives of III, and the Be-, Zn-, and Cd-derivatives of II, are soluble in chloroform, tetrachloro ethane, dioxane, bromo benzene, and dimethy: formamide, the Ni- and Co-derivatives only in dimethyl formamide and dioxane The peculiarities of these compounds are explained according to Hammond Borduin, and Guter (see below). In the interaction between tetraacetyl ethane and the metal ions, a coordination binding of the metal takes place between the keto groups of adjacent molecules of the

Card 2/4

S/190/61/003/010/004/019 B130/B110

Studies in the field of coordination ...

binding agent (Fig. 1). In II, and particularly in III, the formation of closed, monomeric complexes is probable because of the presence of a flexible methylene chain (Fig. 2). There are 2 figures, 7 tables, and 6 references: 2 Soviet and 4 non-Soviet. The four references to Englishlanguage publications read as follows: R. G. Charles, Organic Syntheses, 39,51, 1959; G. S. Hammond, W. G. Borduin, G. A. Guter, J. Amer. Chem. Soc., 81, 4682, 1959; G. A. Guter, G. S. Hammond, J. Amer. Chem. Soc., 61, 4686, 1959; G. J. Bullen, Acta crystallogr., 12, 703, 1959.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR (Institute of Elemental Organic Compounds AS USSR)

SUBSTITUED: October 25, 1960

Fig. 1. Model of a 1,1,2,2-tetraacetylene ethane complex with metal, earbon, o --hydrogen,)-- oxygen, | -- metal.

Fig. 2. Model of a sebacyl discetophenone complex with metal. Designations as in Fig. 1.

Cord 3/4

SHEVINA, T.G. 35095 :/185/62/007/3/1/005/01+ 1299/D302 Tyeshovets'kyy, S.A., Chernets', A.A., Fostchvard, H.I., Sheving, T.H., and Cliynyk, I. .. 74.7100 (1454,1153,1160) prowing of lanthonum ethyl sulfate single crystals with gadolinium and cerium ethyl surfate impurities and some of their physical properties MITTER A FULICOIDAN: Unrayins kyy rizychnyy zhurnal, v. 7, Lo. 1, 1962, The method of preparation, growing technique and measurement of the dielectrical constants of Lanthanum ethyl-sulfate with made of the dielectrical constants of Lanthanum ethyl-surlate with teach of the dielectrical constants of Lanthanum ethyl-surlate englished. These cryptinium- and cerium ethyl-sulfate impurities, is described. These cryptinium- and cerium ethyl-sulfate impurities, is described. These cryptinium- and cerium ethyl-sulfate impurities, is described. stels are paramagnetic substances by means of which ultra-high frequencies can be amplified. The salts of the rare-earth elements of ethylsulfuric acid were prepared by mixing equivalent amounts of the Three-earth element sulfate and parlum ethylsulfate in a solution. The single crystals were grown by gradually cooling the saturated solution, over a period of 10 - 12 days; the crystals were 15 - 20 km. Oard 1/3

Growing of lamthanam sthyl saifate ...

5/165/62/007/001/103/014 D299/1302

long and in - 15 hm thick. It is important to property belset the rate of emper ture tecrease, as at high rates an opaque solution is formed and the orystal becomes inhomogeneous. The shape of the cry- L stals depends on the concentration of the solution; thus, some of the crystals were nexagonal prisms and (with higher gadolinium-ethysulfate concentration) others were hexagonal double-pyramids. The crystals grown from sure solutions were stable in air and in a vacuum, auring repeated cooling from room temperature to that of liquid helium, followed by heating to the original temperature. The dielectric echstants (permittivity of and the tangens of the dielectric-lose angle to o = ["/-"] were measured at a frequency f of 9000 Me, over a temperature range of 290 - 4.20M. In the literature, no such data were previously given. The method of deasurement was bused on the serturbation of the resonator through introducing smallsize specimens into its high-frequency field. This permitted measuring at each temperature point the porturbed and unperturbed values of the natural frequency and Q-factor of the resonator by simply moving the specimen from the region with maximum field-strength to that where the field practically vanishes. The permittivity of va-Uard 2/3

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L 22651-65 EWT(m)/EPF(c)/EWP(j) Pc-4/Pr-4 RM/MLK

ACCESSION NR: AT5002130 S/0000/64/000/000/0173/0177 B+/

AUTHOR: Korshak, V. V.; Krongauz, Ye. S.; Gribkova, P. N.; Sheina, V. Ye.; Vasnev, V. A.

TITLE: Synthesis of bis-(beta-diketones)

SOURCE: AN SSSR. Institut neftekhimicheskogo sinteza. Sintez i svoystva monomerov (The synthesis and properties of monomers). Moscow, Izd-vo Nauka, 1964, 173-177

TOPIC TAGS: diketone synthesis, beta-diketone, aromatic diketone, diketone polymerization, organometallic complex, boron trifluoride, acetoacetylation

ABSTRACT: A direct method has been developed for preparing aromatic bis-(6-diketones) which can be polymerized to give coordination-bonded metal complexes, and a reaction mechanism for the ketone synthesis has been proposed. The aromatic compounds are acetoacetylated in the presence of boron trifluoride with acetic anhydride. 4,4-Bis-(acetoacetyl)diphenyloxide was derived from diphenyloxide as shown by the following equation:

Card 1/2

L 22651-65

ACCESSION NR: AT5002130

and by similar reactions the 4, 4-bis-(acetoacetyl)- derivatives of diphenylmethane, diphenylethane, and of the diphenyl ethers of ethylene- and diethylene glycol were obtained. The best results were obtained when boron trifluoride was rapidly added to the reaction system and this effect was shown to be related to the proposed reaction mechanism. Diacetylated ketones formed by the first reaction step are further acetylated either by direct C-acetylation, or via O-acetylation of diketones and subsequent C-acetylation of the ester formed with the enol of the diketones. The first route is exclusive during the initial reaction period, while the second can become dominant as the acid concentration increases. Infrared analysis showed that only p-derivatives are formed and that the bis-(5-diketones) exist only in their enol form. Their reaction, either in the melt with acetylacetonates or in solution with the acetates of Be, Cu, Ni, Zn, Mn, Co and Cd, yielded coordination chain polymers, most of which were high; colored and infusible powders which were insoluble in conventional organic solvents at 200-400C. Orig. art, has: 11 formulas.

ASSOCIATION: None

SUBMITTED: 30Jul64

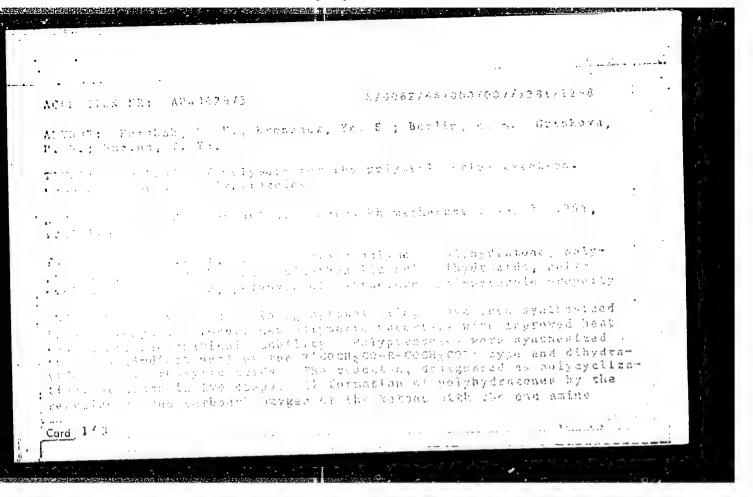
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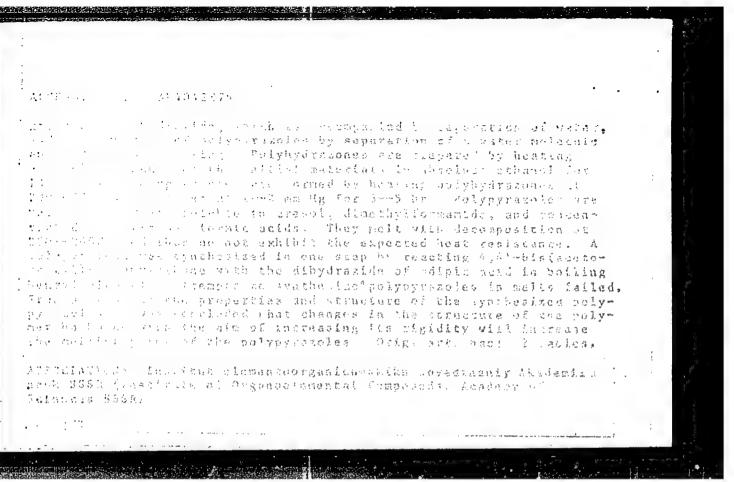
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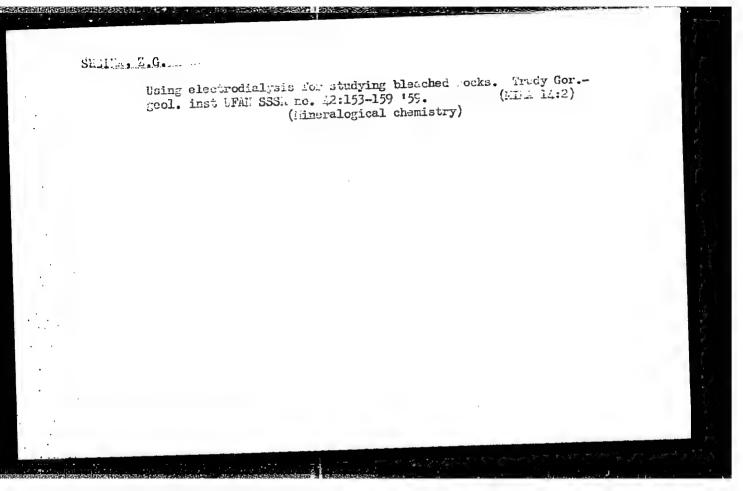
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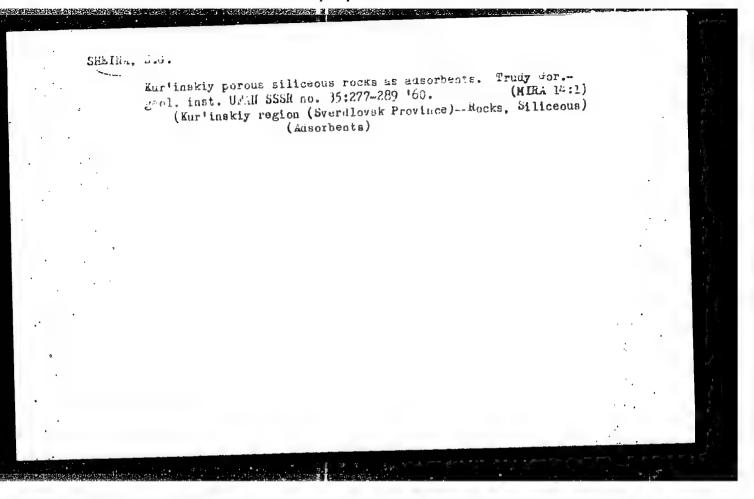
OTHER: 010

Card 2/2









SHEINA, Z.G., kand.khimicheskikh nauk

Study and selection of wetting agents for coals of Yegorshino District by use of the method of capillary absorption. Shor. rab. po stlik. no.2:29-39 '60. (MIRA 14:3)

1. Gorno-geologicheskiy institut Ural'skogo filiala AN SSSR. (MINE DUSTS) (WETTING AGENTS)

SHEINA, Z.G., kand.khimicheskikh nauk; PONOMAREVA, L.K.

Study of the kinetics of wetting dust from quartz-bearing rocks

by means of capillary absorption. Sbor, rab. po silik. no.2:115-124 '60. (MIRA 14:3)

1. Gorno-geologicheskiy institut Ural'skogo filiala AN SSSR. (MINE DUSTS) (WETTING AGENTS)

VYALUKHIN, G.i.; SHEINA, 2.G.

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'61. (Clay—Analysis)

(Clay—Analysis)

KOCHNEV, K.V., prof., doktor tekhn.nauk; SHEINA, Z.G., kand.khimicheskikh nauk; FEDOROVA, G.G., kand.khimicheskikh nauk

Preventing dust formation and keeping down floating dust in the Korkino open-pit mine. Sbor. rab. po silik. no.3:109-117 '61. (MIRA 15:10)

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(Mine dusts—Prevention)

SHEINFAYN, R.Yu.; KRUGLIKOVA, N.S.; STAS', O.P.; NEYMARK, I.Ye.

Mechanism of the formation of a porous silica gel structure. Part 1:

Effect of the acid treatment of hydrogel on the size and packing density of xerogel particles. Koll.zhur. 25 no.6:732-738 N-D '63.

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Mechanism of radiation polymerization. Part 1: Mechanism of gammaray induced carbonium polymerization of isobutylene and styrene. Vysokom.soed. 3 no.5:716-723 My 161. (MIRA 14:5)

Fiziko-khimicheskiy institut imeni L.Ya.Karpova.
 (Polymers, Effect of radiation on) (Propene) (Styrene)

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CIA-RDP86-00513R001549010003-8

L 56540-65 ACCESSION NR: AP5016786 UR/0286/65/000/010/0119/0119 629.113—685.2

AUTHOR: Lefarov, A. Kh.; Sheinker, I. G.; Girko, M. D.; Gubitskiy, A. A.

TITLE: A transmission. Class 63, No. 171278

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 10, 1965, 119

TOPIC TAGS: transmission, engine equipment, clutch

ABSTRACT: This Author's Certificate introduces: 1. A transmission designed principally for trucks and caterpillar tractors. Provision is made for shifting gears without interrupting the power flow by using multidisc friction clutches mounted on rotating shafts. The unit contains an input shaft, two coaxial output shafts which are joined by a differential and are parallel to the input shaft, and intermediate shafts, one coaxial with the input shaft and one with the output shaft. The transsision has relatively small overall dimensions. The first intermediate shaft, mission has relatively small overall dimensions. The first intermediate shaft, which is not coaxial with the input shaft, is hollow and encircles one of the output shafts, which passes through it. This intermediate shaft has a multidisc friction clutch mounted on it. The driven elements of this clutch are connected to the dif-

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ACCESSION NR: AP5016786

ferential housing, while the drive elements are connected to the first intermediate shaft. The differential housing is connected through continuously engaged gears to the intermediate shaft which is coaxial with the input shaft. These gears are engaged by the multidisc friction clutch mounted on the intermediate shaft. 2. A modification of this transmission with reduced axial dimensions. The multidisc friction clutch mounted on the intermediate shaft which is coaxial with the input shaft is a double clutch in the form of two separate multidisc friction clutches. The clutch housings are connected to the drive elements, and the common hub for the clutches, which is connected to the driven elements, has a gear which is rigidly connected to the differential housing.

ASSOCIATION: none

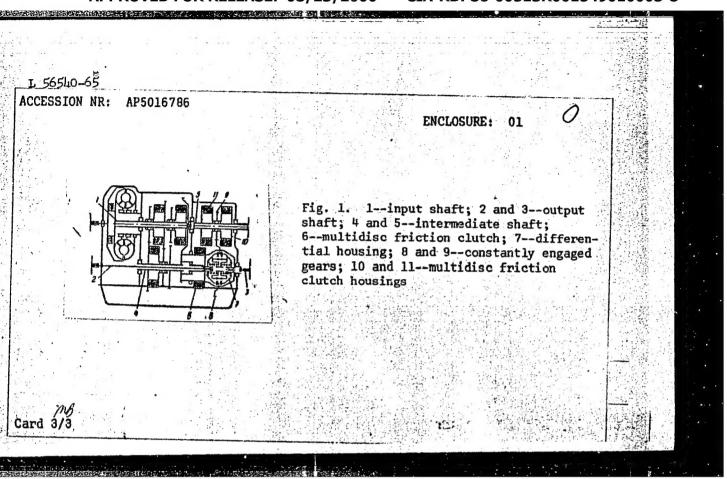
SUBMITTED: 08Feb63

ENCL:

SUB CODE:

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OTHER:



KUNEV, St.; SHEINKMAN, M.; FURSENVO, V.

A method for the noncontact studies of the conductivity phenomena in the cadmium sulfide semiconductors. Izv fiz atom BAN 10 no.2:29-36 '62.

L 30000-26 T/ MIN 1/1TI 1/1Te) JD ACC NR. AP6018336 SOURCE CODE: GE/0030/66/013/001/0025/0036	
AUTHOR: Korsunskaya, N. E.; Markevich, I. V.; Sheinkman, M. K. 73	
ORG: Institute of Semiconductors, Academy of Sciences of the Ukrainian SSR, Kiev	
TITLE: Photochemical reactions in CdS single crystals at low temperatures	
SOURCE: Physica status solidi, v. 13, no. 1, 1966, 25-36	
TOPIC TAGS: photoconductivity, recombination reaction, electron trapping, low temperature effect, photocomical resulting, cadmium sulfide, crystal, planting, recombination to the technical photochemistry	
ABSTRACT: The investigation of glow curves under various illumination conditions in cadmium sulfide single crystals (previously annealed at high temperatures) shows that the photochemical formation of new trapping centers arises at +20 to -100C. In the same temperature range, the new "sensitizing" recombination centers, having small	'd
capture cross sections for electrons, also arise due to the photo-	
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ACC NR: AP6018336

chemical reaction. This causes the photoconductivity to be increased by a factor of 2 to 100. The investigation of the kinetics of trapping and recombination processes by various methods makes it possible to determine a number of parameters for the new trapping and recombination centers. The authors thank Professor V. E. Lashkarev for his interest in this work and valuable discussions and Dr. W. Borchardt and Dr. J. Voigt for helpful discussions. Orig. art. has: 6 figures, 2 formulas, and 1 table. [Based on authors' abstract]

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